CITY OF BREMERTON

DEPARTMENT OF PUBLIC WORKS & UTILITIES
3027 OLYMPUS DRIVE
BREMERTON WA 98310

MEETING NOTES
EPA BROWNFIELDS GRANT

Meeting Date: Tuesday, December 4, 2007

Time: 1:15 P.M. to 2:45 P.M.

Place: City of Bremerton PW & Utilities Administration Office
3027 Olympus Drive, Bremerton WA 98310

Attendance: Joanne LaBaw, EPA Project Officer
David Cook, P.G. GeoEngineers, Inc.
Sean Trimble, P.G. GeoEngineers, Inc.
Bryce Robbert, Ecology & Environmental (E&E)
Linda Costello, E&E
Dan Miller, PW & Utilities

EPA introduced E&E as their Targeted Brownsfields Assessment (TBA) Contractor that will be contracted directly by EPA to perform the next phase of contamination investigation. E&E will be compensated by EPA -TBA funds.

EPA stated the TBA funds have become very popular and as a result get utilized very quickly. The present TBA budget for this next phase of field work is $50K. The $50K budget does not include the laboratory testing and chemical analysis. As a result of the budget constraint the total number of geoprobe boring locations may have to be reduced.

GeoEngineers provided a brief summary of the Upland Assessment Report. GeoEngineers and E&E discussed the types and levels of contaminants indicated in the report, Figures 3-6. GeoEngineers also mentioned that the Upland Assessment Report was provided to the Department of Ecology (DOE).

E&E mentioned they have developed a preliminary Plan that expands upon the Upland Assessment Report. E&E has developed additional sampling locations including sampling sediment locations on the beachfront.

EPA stated the beachfront sediment sampling was not part of the initial plan but will be useful in this next phase to acquire samples especially at their point of compliance that DOE will eventually want to know.

E&E provided their proposed sampling approach and proposed site sampling locations. See attached Memorandum, dated November 29, 2007 and Figure 1-Proposed Sampling Site Locations.

According to the Memorandum and Sampling Locations, E&E proposes additional subsurface sampling; nine (9) geoprobe sampling locations (McConkey Property MP-01 – MP-06 and Sesko Property SP-01-through SP-03). The nine subsurface soil samples will be collected from each borehole at four (4) foot intervals.

MP-01 through MP-03 will be located downgradient of previously sampled locations that were found to be contaminated on the McConkey property to determine whether this contamination is migrating; MP -04 – MP-06 will be located in areas not previously sampled on the McConkey property to determine whether contamination exists in these areas. In fact, MP -04 and MP-05 will be located adjacent to or in Thomson Avenue to see if contamination is migrating from the upper elevated petroleum site that was formally an ARCO site.

SP-01 through SP-03 will be located downgradient or in close proximity to areas previously used to store petroleum products on the Sesko property.

In addition, beachfront sediment samples are also discussed in this phase. The proposed locations along the beachfront are identified as WN-01 through WN-05. The sediment sampling will be advanced using a hand auger in lieu of a track rig since the steep slope appears impossible to mobilize motorized equipment. According to the Memorandum, E&E anticipates the sediment samples be tested for NWTPH-Gx/Dx, volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), and Target Analyte List (TAL) metals.

NOTE: GeoEngineers and/or E&E will determine the appropriate sampling depths for the proposed beachfront samples (WN-01 through WN-05).

E&E stated the Proposed Sampling Locations are assumptions and open for discussion and modifications.

GeoEngineers, E&E and EPA came to a consensus as to the sampling locations with some slight modifications:

- MP-06 and SP-02 will be monitoring wells in lieu of soil borings; this will allow the collection of discrete groundwater samples at each of these proposed soil boring locations.

In addition to discussing the sampling locations, GeoEngineers recommended that E&E construct a geological cross-section of the site in an effort to determine the groundwater-to-surface water discharge zone.

E&E will finalize the Site Plan and include it in the draft-Sampling Assessment Plan (SAP) for EPA's review and approval. E&E anticipates submitting the aforementioned documents along with their Health Safety Plan (SAP) to EPA by end of December or early part of January '08.

The SAP and HSP as indicated in the initial work plan, takes approximately 20-working days for EPA approval.

Presently, E&E is committed on several on-going projects and assignments. E&E anticipates mobilizing on-site by early March or by mid-March '08. The laboratory data results are anticipated to be known by late spring. This information and supporting data will be useful to all stakeholders as wells as required by DOE.

GeoEnginners will be available to the City to assist with review and other needs that may be necessary to expedite this next phase.

Dan Miller, City of Bremerton PW & Utils.

12-06-07
Date

MEMORANDUM

Date: November 29, 2007

TO: Joanne LaBaw, Task Monitor, Environmental Protection Agency (EPA), Seattle, WA, Mail Stop ECL-112

FROM: Renee Nordeen, START-3 Project Leader, Ecology and Environment, Inc. (E & E), Seattle, WA

SUBJECT: Proposed Sampling Approach
Bremerton Gasworks Targeted Brownfields Assessment (TBA)
Bremerton, Washington

REF: Contract Number EP-S7-06-02
Technical Direction Document Number (TDD): 07-01-0008

cc: Bryce Robbert, START-3 Protégé, White Shield, Inc. (WSI), Bellevue, WA

The Environmental Protection Agency EPA Task Monitor (TM) tasked the Superfund Technical Assistance and Response Team (START) to conduct a Targeted Brownfields Assessment at the Bremerton Gasworks Properties, which are located on two parcels of land, the McConkey property owned by Trip McConkey and the Sesko property owned by Natasha Sesko. The properties are located adjacent to each other along the shores of Port Washington Narrows. Both sites are located in the city of Bremerton, Washington.

On February 1, 2007 the START conducted a site visit with the City of Bremerton, City of Bremerton's contractors, Geoengineers, Inc., Parametrix, and the site owner. The City of Bremerton hosted a meeting at the Public Works and Utilities Building with above mentioned participants except the site owner, and EPA Task Manager Joanne LaBaw. A tentative work schedule was agreed upon, with Geoengineers installing 8 monitoring wells (MW-1 through MW-8) and creating a report detailing contamination found on-site during the monitoring well drilling. This report was completed on September 10, 2007 and is titled, *"Preliminary Upland Assessment Report, McConkey/Sesko Site, Bremerton, Washington."*

This report revealed the presence of subsurface soil and groundwater contamination. Contaminants in both groundwater and soil were primarily petroleum-related. This contamination was present at some locations to depths of 30 feet below ground surface (bgs). The START plans to collect up to 86 soil samples to delineate the extent of contamination on site and to assess whether or not contamination is migrating to Port Washington Narrows. Specific locations and the proposed analytical suite are discussed below.

Proposed Sampling Approach

Based on the site visit observations, conversations with current property owners, *Preliminary Upland Assessment Report, McConkey/Sesko Site, Bremerton, Washington*, and a file review, the following sampling strategy is proposed (see attached figure for specific locations):

Subsurface Samples:
Due to the extensive contamination found during the initial investigation, the START proposes nine borehole sampling locations on the McConkey/Sesko properties. These locations are MP01 through MP06 on the McConkey property and SP01 through SP03 on the Sesko property. Up to nine subsurface soil samples will be collected from each borehole at four foot intervals. Boreholes will be advanced using a Geoprobe™ up to 36 feet bgs, to bedrock or to refusal; whichever is encountered first. Boreholes will be placed at the following locations:

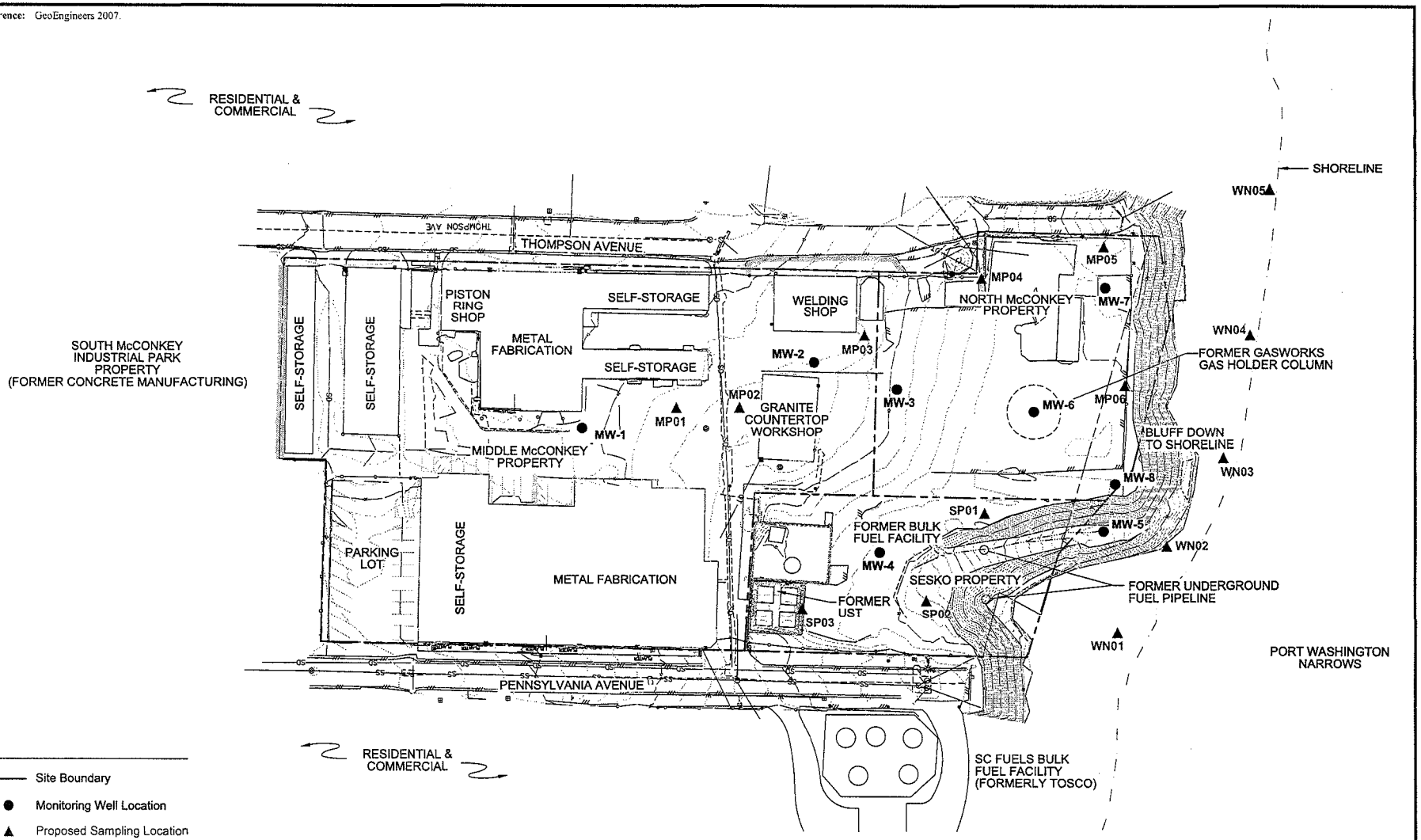
- MP01 - MP03 will be located downgradient of previously sampled locations that where found to be contaminated on the McConkey property to determine whether this contamination is migrating;
- MP04 – MP06 will be located in areas not previously sampled on the McConkey property to determine whether contamination exists in these areas; and
- SP01 - SP03 will be located downgradient or in close proximity to areas previously used to store petroleum products on the Sesko property.

All subsurface samples will be submitted for Northwest total petroleum hydrocarbons analysis for gasoline and diesel range chemicals (NWTPH-Gx/Dx), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and Target Analyte List (TAL) metals.

Sediment Samples:
Five boreholes will be placed along the shoreline of Port Washington Narrows. These locations are WN01 through WN05. One subsurface sediment samples will be collected from each borehole. Boreholes will be advanced using a hand auger or Geoprobe to 4 foot bgs or to refusal; whichever is encountered first. The sample will cover the 4 foot interval between the ground surface and 4 feet bgs. These samples will be collected to determine whether site contamination extends to the Port Washington Narrows. All sediment samples will be submitted for NWTPH-Gx/Dx, VOCs, SVOCs, and TAL metals.

If you have any additional questions regarding this memorandum or its assumptions, please contact me at 206-624-9537.

Base Map Reference: GeoEngineers 2007.



Legend:

- Site Boundary
- MW-1 ● Monitoring Well Location
- ▲ Proposed Sampling Location

ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

0 70 140
Approximate Scale in Feet

BREMERTON GASWORKS
Bremerton, Washington

Figure 1
PROPOSED SAMPLING LOCATIONS

Date:	Drawn by:	
10/8/07	AES	10:START-3\07010008\fig 1